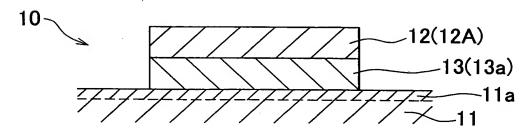
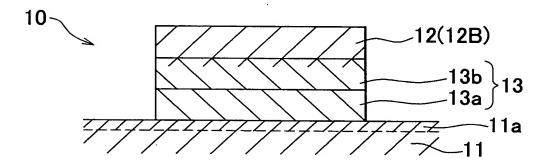
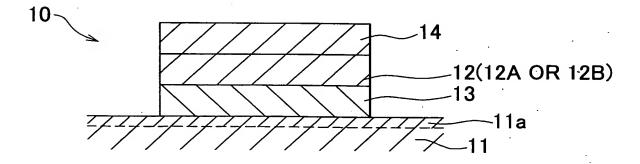
F I G. 1



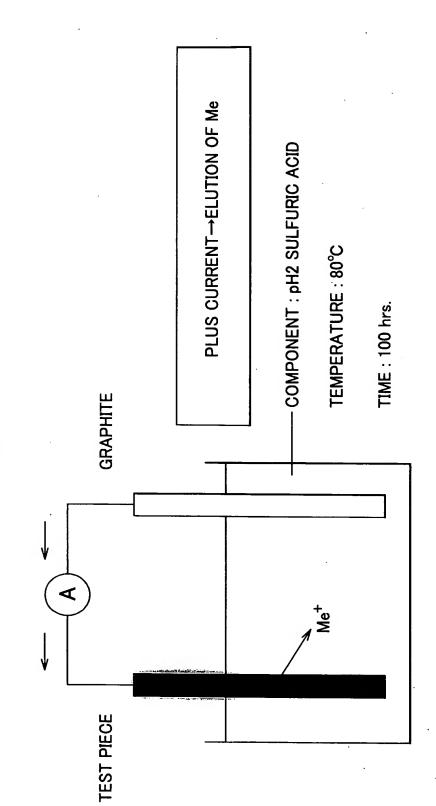
F I G. 2



F I G. 3

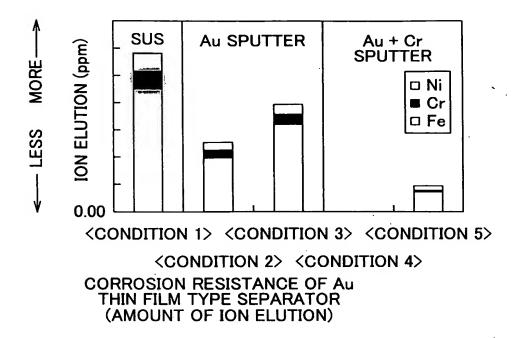


F I G. 4

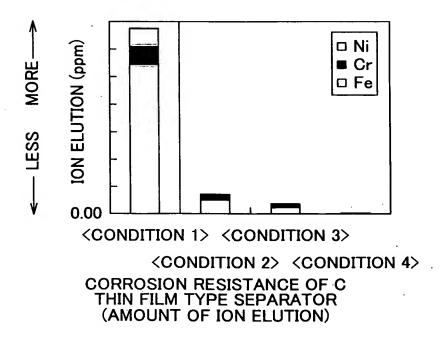


COUPLE CURRENT TEST METHOD

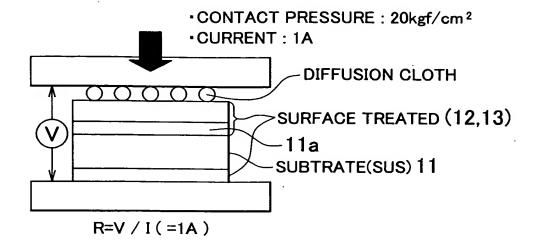
F I G. 5



F I G. 6

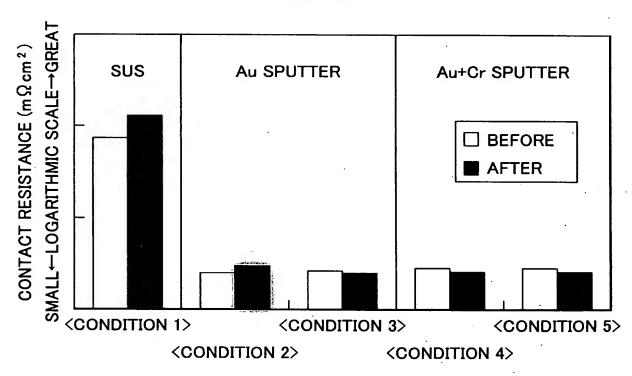


F I G. 7



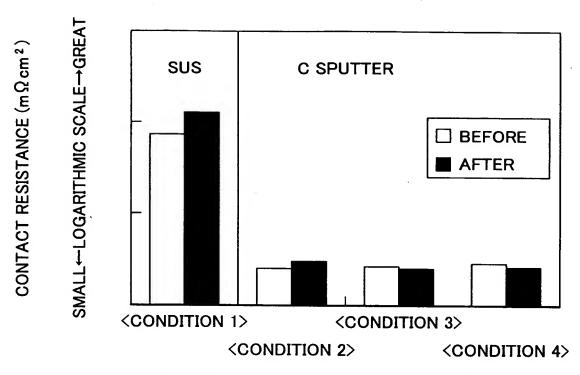
CONTACT RESISTANCE TEST METHOD

F I G. 8



CONTACT RESISTANCE OF Au THIN FILM TYPE SEPARATOR BEFORE AND AFTER CORROSION TEST

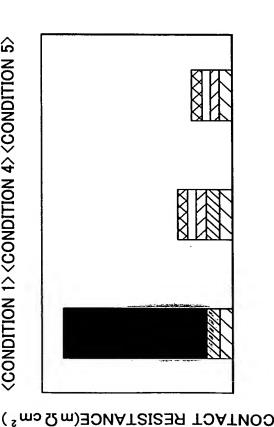
F I G. 9



CONTACT RESISTANCE OF C THIN FILM TYPE SEPARATOR BEFORE AND AFTER CORROSION TEST

F I G. 10

<CONDITION 1> <CONDITION 4> <CONDITION 5>



: CONTACT RESISTANCE OF DIFFUSION CLOTH (CARBON CLOTH) AND SUBSTRATE OXIDE FILM

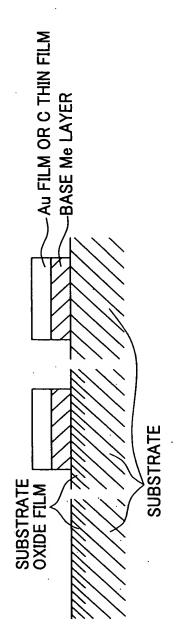
CONTACT RESISTANCE OF DIFFUSION CLOTH (CARBON CLOTH) AND AU FILM OR C THIN FILM

RESISTANCE OF AU FILM, C THIN FILM

: RESISTANCE OF BASE FILM

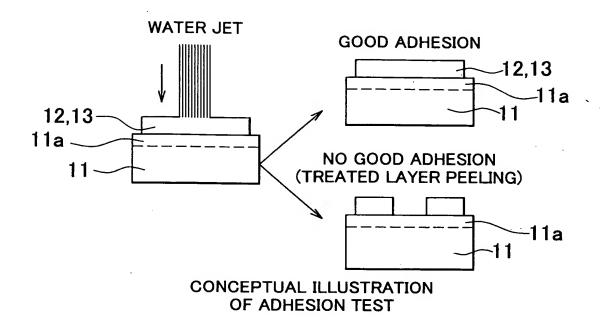
Z : RESISTANCE OF SUBSTRATE OXIDE FILM

Z : RESISTANCE OF SUBSTRATE

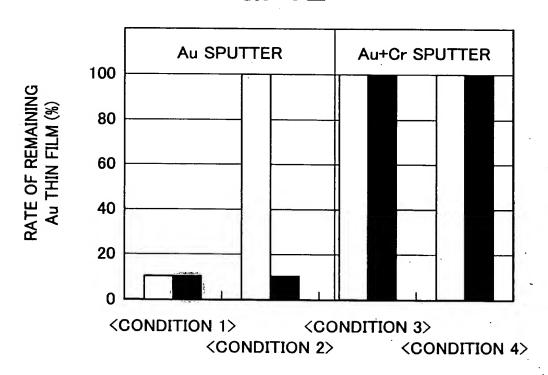


CONTACT RESISTANCE COMPONENTS (CONCEPTUAL) CONSTRUCTION OF SURFACE TREATMENT AND

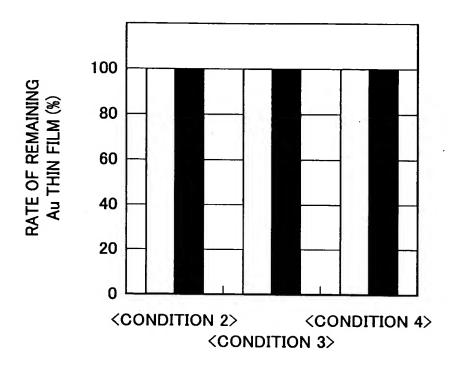
F I G. 11



F I G. 12



ADHESION OF Au THIN FILM TYPE SEPARATIOR



ADHESION OF Au THIN FILM TYPE SEPARATIOR

F I G. 14D METAL SEPARATOR **VARIATION IV** $\mathbf{\omega}$ F I G. 14C METAL SEPARATOR **VARIATION** 田 ပ ⋖ F I G. 14B METAL SEPARATOR VARIATION II ပ Ω F I G. 14A CARBON-Me OR MeC GRADIENT LAYER VARIATION I Me OR Mec LAYER CARBON LAYER METAL SEPARATOR ပ œ ∢

F I G. 14G

F I G. 14E

METAL SEPARATOR

METAL SEPARATOR

METAL SEPARATOR

METAL SEPARATOR

F I G. 141 VARIATION X II METAL SEPARATOR F I G. 14K METAL SEPARATOR VARIATION X I エ F I G. 14J METAL SEPARATOR **VARIATION X** CARBON+Me OR MeC-Me OR MeC GRADIENT LAYER F I G. 14] METAL SEPARATOR CARBON LAYER+Me OR MeC LAYER VARIATION IX Me OR MeC LAYER エ